

Serial No.: 09/632,266

IN THE CLAIMS:

1. (Currently Amended) A man-machine interface for an electronic trip device comprising:

an interface for supplying setting parameters, each having a respective value, and for displaying information and tripping curves on a screen, said setting parameters for modifying during a setting operation a visual aspect of the line of at least one portion of a curve representative of a parameter whose setting is being adjusted, ~~and~~; and

a processing unit connected to the interface, said processing unit having inputs for receiving electrical signals representative of electrical quantities and an output for supplying a tripping signal to a tripping relay, wherein

said interface comprises means for displaying setting parameters comprising:

means for activating a setting function selection button;

means for displaying a list of protection curves;

means for activating at least one shift button in a scrollable menu;

Serial No.: 09/632,266

means for activating a validate button to select a curve whose parameters are to be set;

means for displaying a selected curve and corresponding setting parameters;

means for displaying a portion of the selected curve and a corresponding parameter with a frame;

means for activating at least one shift button to change the portion of a curve and a corresponding parameter;

means for activating a validate button to switch to a parameter value modification mode;

means for activating a shift button to change parameter values; and

means for activating at least one validate button to quit a modification mode; and

~~a processing unit connected to the interface, said processing unit having inputs for receiving electrical signals representative of electrical quantities and an output for supplying a tripping signal to a tripping relay.~~

Serial No.: 09/632,266

2. (Currently Amended) The man-machine interface according to claim 1, wherein the ~~display~~ means for displaying setting parameters is for modifying the visual aspect of at least one portion of a curve by increasing the thickness of said at least one portion of such a curve representative of a parameter whose setting is being adjusted.

3. (Previously Presented) The man-machine interface according to claim 1, wherein the means for displaying setting parameters is for highlighting at least one item of information displayed on the screen representative of a parameter whose setting is being adjusted.

4. (Previously Presented) The man-machine interface according to claim 1, wherein the means for displaying setting parameters is for changing at least a color of text or background of at least one item of information displayed on the screen representative of a parameter whose value is being modified.

Serial No.: 09/632,266

5. (Currently Amended) The man-machine interface according to claim 1, wherein the man-machine interface further comprises display means for displaying a scrollable menu for framing at least one item of information to be selected in a selection phase.

6. (Previously Presented) The man-machine interface according to claim 5, wherein the display means is for highlighting in a scrollable menu one item of information in a top-most position, one item of information in a bottom-most position, and items of information in respective intermediate position between a top-most positions and a bottom-most position.

7. (Currently Amended) The man-machine interface according to claim 1, wherein the man-machine interface further comprises selection means comprising function buttons associated with indicator lights to indicate a function selected by a button.

Serial No.: 09/632,266

8. (Previously Presented) The man-machine interface according to claim 7, wherein the function buttons comprise at least a first button for selecting a measurement function, at least a second button for selecting a maintenance function, and a third button for selecting a setting function.

9. (Previously Presented) A process for setting parameters of a trip device comprising:

activating a setting function selection button,
displaying a list of protection curves,
activating at least one shift button in a scrollable menu,
activating a validate button to select a curve whose parameters are to be set,

displaying a selected curve and corresponding setting parameters,

displaying a portion of the selected curve and a corresponding parameter with a frame,

activating at least one shift button to change the portion of a curve and a corresponding parameter,

Serial No.: 09/632,266

activating a validate button to switch to a parameter value modification mode,

activating a shift button to change parameter values, and

activating at least one validate button to quit a modification mode.

10. (Previously Presented) The man-machine interface according to claim 1, wherein the interface is connected by communication means to the processing unit.

11. (Previously Presented) The man-machine interface according to claim 10, wherein the communication means is for communicating according to an Internet type protocol.

12. (Previously Presented) The man-machine interface according to claim 1, wherein the interface is represented on a screen for displaying information and tripping curves and for determining setting parameters.

Serial No.: 09/632,266

13. (Previously Presented) The man-machine interface according to claim 12, wherein setting parameters are determined by soft keys represented on a screen of the interface.

14. (Previously Presented) A man-machine interface according to claim 1, in combination with a circuit breaker comprising main contacts connected in series with power conductors, current sensors located on said conductors, and a tripping relay for receiving a tripping signal to bring about opening of said contacts, wherein the man-machine interface is connected to said current sensors and to said tripping relay.